Kitchen Cabinets & Stones Limited

Prepared by:
will.jing@sunbursttechnologies.co.nz
+64 211966488
will.jing@sunbursttechnologies.co.nz

For:
9 Aetna Place, Auckland

Quote #: 5649516
Valid until: 3rd December 2024

Solar Energy System Proposal

Dear ,

Thank you for the opportunity to present your Solar Energy System Proposal.

Best Regards,
will.jing@sunbursttechnologies.co.nz
Sunburst Technologies

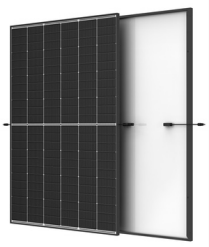
Recommended System Option

219.12 kW	$52,829	$270,000	$270,000
System Size	Estimated Annual Electricity Bill Savings	Total System Price excluding GST	Net System Price excluding GST

Your Solution

Trina Vertex S+ NEG9R.28 (210R n-Type Dual-Glass)

219.120kW of Solar Power
498 x TSM-440NEG9R.28
Trina Vertex S+ 440 Watt panels
25 Year Product Warranty & **30 Year** Linear Performance Warranty
299,573 kWh per year



Inverter

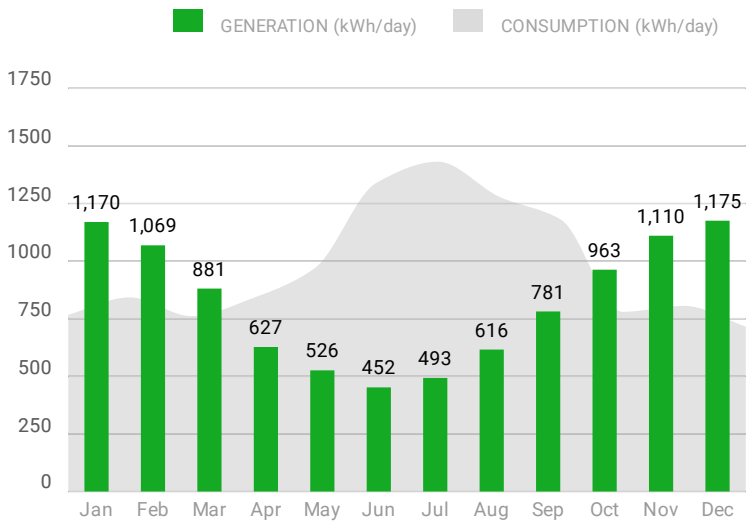
Entelar Energy
200 kW Total Inverter Rating
4 x EESOLAR-50KTL-M3

Warranties: 25 Year Panel Product Warranty, 30 Year Panel Performance Warranty

System Performance

84%

Energy From Solar



System Performance Assumptions: System Total losses: 13.8%, Inverter losses: 2.0%, Optimizer losses: 0%, Shading losses: 0%, Performance Adjustment: 0%, Output Calculator: System Advisor Model 2020.02.29.r2. Panel Orientations: 498 panels with Azimuth 303 and Slope 20.

The solar system(s) quoted in this proposal are not intended to be portable.

Environmental Benefits

Solar has no emissions. It just silently generates pure, clean energy.

Each Year

84% Of CO_2, SO_x & NO_x

37 tons Avoided CO_2 per year

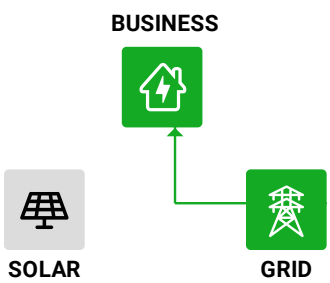
Over System Lifetime

3,225,478 Car km avoided

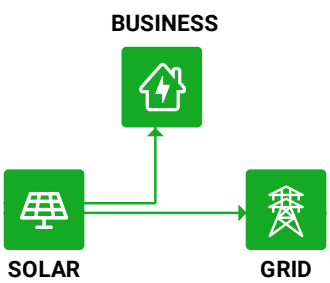
6,583 Trees planted

How your system works

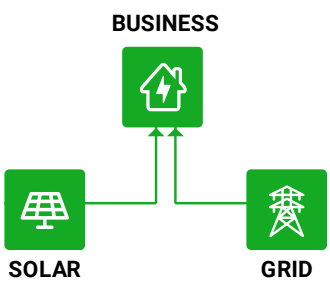
Morning Off-Peak



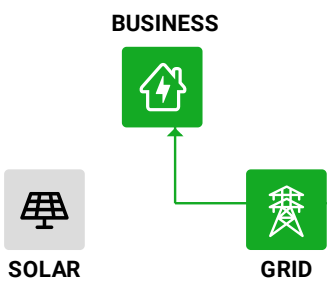
Generating Excess Solar



Partially Offset Usage

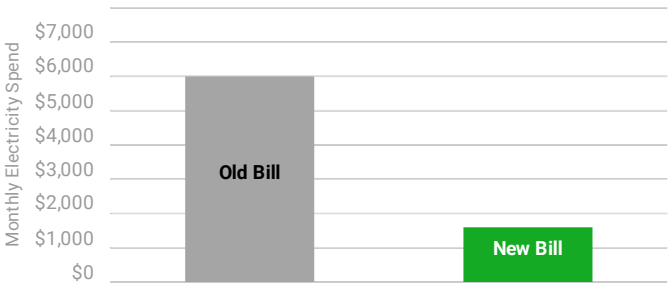


Night/Peak Times

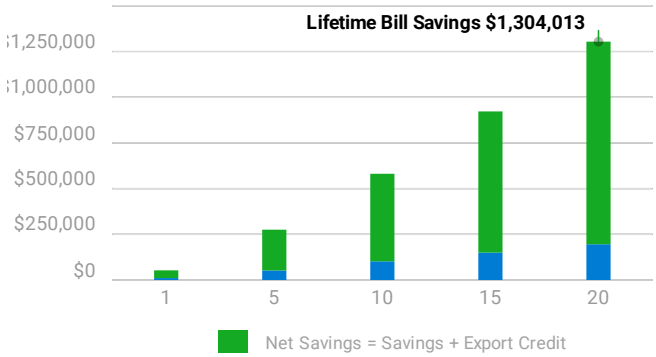


Electricity Bill Savings

First Year Monthly Bill Savings



Cumulative Bill Savings



Month	Solar Generation (kWh)	Electricity Consumption before solar (kWh)	Electricity Imported after solar (kWh)	Electricity Exported after solar (kWh)	Export Credit ($)	Utility Bill before solar ($)	Utility Bill after solar ($)	Estimated Savings ($)
Jan	36,263	24,172	3,731	15,822	1,899	4,896	-1,090	5987
Feb	29,918	23,600	4,261	10,580	1,270	4,776	-361	5137
Mar	27,304	23,536	5,324	9,092	1,091	4,769	36	4733
Apr	18,817	24,990	10,167	3,994	479	5,058	1,614	3444
May	16,301	30,520	15,164	945	113	6,166	2,981	3185
Jun	13,558	39,848	26,609	319	38	8,030	5,344	2686
Jul	15,283	44,262	29,349	369	44	8,914	5,887	3027
Aug	19,098	40,287	21,954	765	92	8,119	4,361	3758
Sep	23,443	34,416	14,371	3,398	408	6,943	2,526	4417
Oct	29,845	24,565	6,040	11,319	1,358	4,975	-88	5063
Nov	33,305	24,444	5,286	14,147	1,698	4,949	-580	5529
Dec	36,437	21,713	3,094	17,818	2,138	4,405	-1,457	5862

Your projected energy cost is calculated by considering a 3% increase in energy cost each year, due to trends in the raising cost of energy. This estimate is based on your selected preferences, current energy costs and the position and orientation of your roof to calculate the efficiency of the system. Projections are based on estimated usage of 356375 kWh per year, assuming Custom Tariff Electricity Tariff.

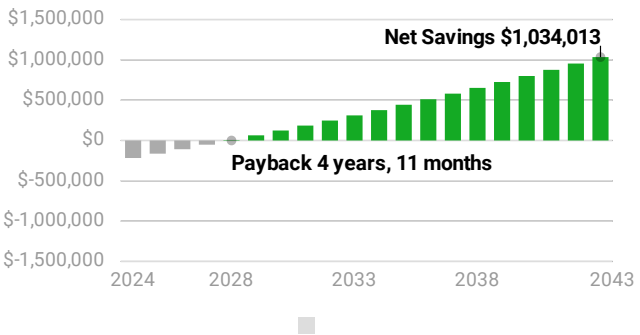
Your electricity tariff rates may change as a result of installing the system. You should contact your electricity retailer for further information.

Proposed Tariff Details - Custom Tariff	
Energy Charges	
rate 0 *All Day*	$0.20 / kWh
Feed-in Tariff	
rate 0 *All Day*	$0.12 / kWh
Fixed Charges	
Fixed Charge	$2.00 / day

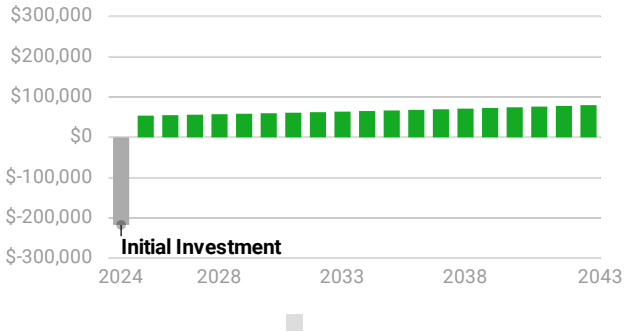
Net Financial Impact Cash

$1,304,013	-	$270,000	=	$1,034,013
Utility Bill Savings		Net System Cost		Estimated Net Savings

Cumulative Savings From Going Solar



Annual Savings From Going Solar



Estimates do not include replacement costs of equipment not covered by a warranty. Components may need replacement after their warranty period. Financial discount rate assumed: 6.75%

Quotation

Payment Option: Cash

498 x Trina Solar Co., Ltd. 440 Watt Panels (TSM-440NEG9R.28) 4 x EESOLAR-50KTL-M3 (Entelar Energy)	
Standard System Price	$274,000.00 Plus $41,100.00 GST
Discount	$-4,000.00
Total System Price	$270,000.00 Plus $40,500.00 GST
Purchase Price	**$270,000.00** Plus $40,500.00 GST
Deposit Payable	**$180,000.00** Including $23,478.26 GST

Price excludes Retailer Smart Meter should you want us to install your Smart Meter it will be an additional cost.
This proposal is valid until 3rd December 2024.

Quote Acceptance

I have read & accept the terms and conditions.

Signature _____

Name _____ Date _____

Payment Details: Offline Payment

Contact your sales representative regarding payment.

OpenSolar

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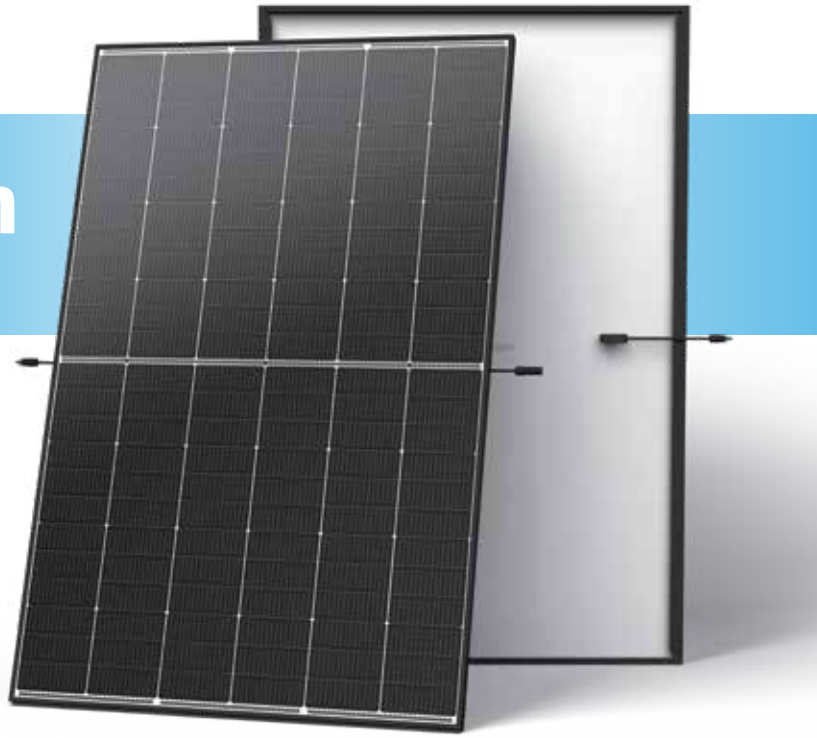
Vertex S+



N-type i-TOPCon

DUAL GLASS MONOCRYSTALLINE MODULE

TSM-XXXNEG9R.28 **425-460W**

460W MAXIMUM POWER OUTPUT

23.0% MAXIMUM EFFICIENCY

High Customer Value

- Suitable for residential and C&I rooftop
- Perfect size and low weight for handling and installation
- Compatible with mainstream inverters and diverse mounting systems
- Mechanical test load up to 5400 Pa front side and 4000 Pa back side
- Certified lifetime carbon footprint assessment

High reliability with light double glass

- Less prone to micro-cracks and scratches on the back side
- Fire Safety Class rating C, Safety Class II
- Up to 25 years product warranty and 30 years power warranty

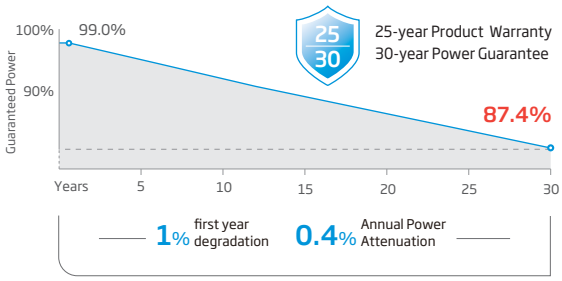
High power up to 460W

- Up to 23.0% module efficiency, on 210 innovative platform
- Patented i-TOPCon technology with continuous efficiency improvement, including contact resistance reduction, rear reflection enhancement and edge quality repairment

High energy yield

- Excellent low irradiation performance, validated by 3rd party
- Lower temperature efficient (-0.29%/°C) and lower working temperature

Performance Warranty



(**Please refer to Limited Warranty Supplement that applies to the TSM-***NEG9R.28,TSM-***NEG9RC.27, Products supplied after 1st Jan 2024 and installed within Australia & New Zealand market.)

Comprehensive Products and System Certificates

IEC61215/IEC61730
ISO 9001: Quality Management System
ISO 14001: Environmental Management System
ISO14064: Greenhouse Gases Emissions Verification
ISO45001: Occupational Health and Safety Management System
ISO14067: Product Carbon Footprint Limited Assurance
ISO14025: Environmental Product Declaration

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

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Version number: TSM_EN_2024_Aus_C
Country of Origin: China

Trinasolar

Vertex S+

N-type i-TOPCon DUAL GLASS MONOCRYSTALLINE MODULE

ELECTRICAL DATA (STC) TSM-XXXNEG9R.28 (XXX=425-460)

Peak Power Watts-PMAX(Wp)*	425	430	435	440	445	450	455	460
Binning Tolerance-PMAX(Wp)				0 ~ +5				
Maximum Power Voltage-VMPP (V)	42.9	43.2	43.6	44.0	44.3	44.6	45.0	45.4
Maximum Power Current-IMPP (A)	9.92	9.96	9.99	10.01	10.05	10.09	10.11	10.14
Open Circuit Voltage-VOC (V)	50.9	51.4	51.8	52.2	52.6	52.9	53.4	53.8
Short Circuit Current-ISC (A)	10.56	10.59	10.64	10.67	10.71	10.74	10.77	10.81
Module Efficiency η m (%)	21.3	21.5	21.8	22.0	22.3	22.5	22.8	23.0

STC: Irrdiance 1000W/m², Cell Temperature 25°C, Air Mass AM1.5. *Measuring tolerance: ±3%.

ELECTRICAL DATA (NOCT)

Peak Power Watts-PMAX(Wp)	325	329	333	337	341	344	348	352
Maximum Power Voltage-VMPP (V)	40.1	40.7	41.0	41.4	41.7	42.0	42.3	42.7
Maximum Power Current-IMPP (A)	8.07	8.08	8.12	8.14	8.17	8.19	8.22	8.25
Open Circuit Voltage-VOC (V)	48.3	48.7	49.1	49.5	49.9	50.2	50.6	51.0
Short Circuit Current-ISC (A)	8.51	8.54	8.58	8.60	8.63	8.66	8.68	8.71

NOCT: Irradiance at 800W/m², Ambient Temperature 20°C, Wind Speed 1m/s.

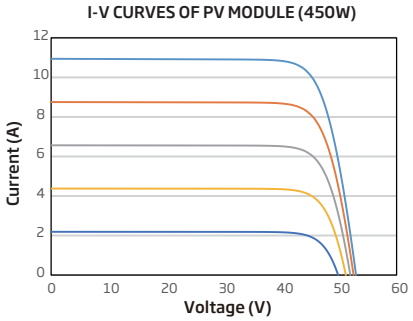
TEMPERATURE RATINGS

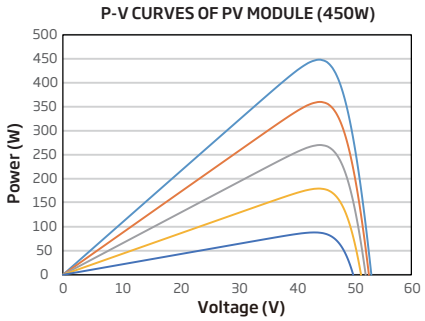
NOCT (Nominal Operating Cell Temperature)	43℃ (±2℃)
Temperature Coefficient of PMAX	- 0.29% /℃
Temperature Coefficient of VOC	- 0.24% /℃
Temperature Coefficient of ISC	0.04% /℃

MAXIMUM RATINGS

Operational Temperature	-40~+85℃
Maximum System Voltage	1500V DC (IEC)
Max Series Fuse Rating	25A

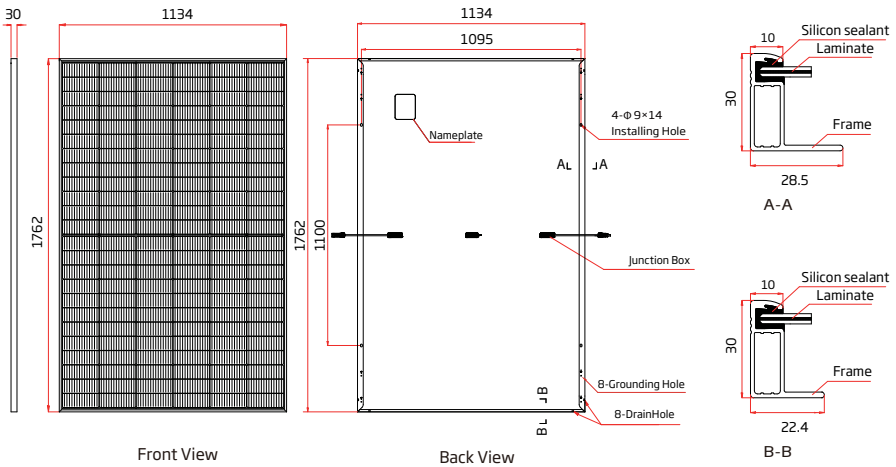
CURVES OF PV MODULE





MECHANICAL DATA

Solar Cells	N-type i-TOPCon Monocrystalline
No. of cells	144 cells
Module Dimensions	1762×1134×30 mm (69.37×44.65×1.18 inches)
Weight	21.0 kg (46.30lb)
Front Glass	1.6 mm (0.06 inches) AR Coated Heat Strengthened Glass
Back Glass	1.6 mm (0.06 inches), Heat Strengthened Glass
Frame	30mm(1.18 inches) Anodized Aluminium Alloy, Black
J-Box	IP 68 rated
Cables	Photovoltaic Technology Cable 4.0mm² (0.006 inches²) Length: 1300/1300 mm(43.3/43.3 inches)
Connector	Stabuli MC4 EVO2
Packaging	Modules per box: 36 pieces Modules per 40' container: 936pieces



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